

USMC Fuel Efficiency Study

Brigadier General Dickerson

USMC Fuel Challenge

- USMC fuel usage increasing 15% by 2010
 - MTRV uses 30% more fuel than predecessor
- Multiple fuel dependency
- 10% fuel reduction – save MEF \$1.8M/day



Fossil Fuel Reduction/Elimination

- USMC Goal to:
 - Reduce multiple fuel use
 - Eliminate/reduce fossil fuel use
 - Hybrid Vehicles
 - Electric Vehicles
 - Nano-Technology developments



Reduced Fuel Footprint

- New Equipment Development Goals:
 - Greater acceleration
 - Better fuel economy
 - Increased survivability
 - Greater lethality.

M1A1 - 68 Tons



Electric Combat Vehicle – 25 tons

